

## UNITED STATES PATENT OFFICE

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## LINK TYPE HINGE

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3 Claims. (Cl. 16—163)

The invention relates to the general class of builders' hardware and has special reference to means for pivotally mounting a closure.

The principal object of the invention, generally stated, is to provide a novel link type hinge well adapted for use in pivotally mounting the covers of boxes, chests and the closures of various articles of furniture, there being, however, no particular limitation as to the employment of the device as it is well adapted for use in a wide variety of arts and for numerous purposes.

An important object of the invention is to provide a hinge which is of the link type in contradistinction to the pintle or pin type and which consequently provides for a certain bodily movement of the closure with respect to a receptacle or the like in addition to simple rotary or pivotal movement.

Another object is to provide a hinge which embodies or incorporates within itself combined stop and brace means which, when the cover for instance of a chest or the like is opened, will limit the opening movement and at the same time support the cover at an incline so that it will not accidentally fall into closed position.

Still another object is to provide a hinge possessing the above mentioned characteristics and which also involves the provision of coacting guide elements which will insure proper relative movement of the component parts at any and all times and throughout all stages of the movement of the closure, great strength and rigidity being thereby obtained.

Another object is to provide a hinge which upon being applied to an article of furniture or the like is mounted upon the inner faces of the ends thereof and will consequently be more stable and far less liable to disorganization than the pintle types of hinges which are simply mounted upon the edges of receptacles, etc.

An additional object is to provide a hinge of this character which will be simple and inexpensive to manufacture, easy to install or mount, positive in action, efficient and durable in service, and a general improvement in the art.

To the attainment of the foregoing and other objects and advantages, the invention preferably consists in the details of construction and the arrangement and combination of parts to be hereinafter more fully described and claimed, and illustrated in the accompanying drawing in which:

Figure 1 is a fragmentary vertical cross sectional view through a chest or the like showing the cover thereof closed and illustrating my hinge

structure, the view being taken at such a plane as to look toward the inside of the hinge casing.

Figure 2 is a similar view with the cover shown in open position,

Figure 3 is a vertical cross section taken on the line 3—3 of Figure 1,

Figure 4 is a horizontal section taken on the line 4—4 of Figure 1, and

Figure 5 is a view looking at the outside of the hinge casing with a portion thereof broken away and in section.

Referring more particularly to the drawing, the numeral 10 designates, as a whole, a portion of an article of furniture, for example, which might easily be a chest or the like, it being distinctly understood in advance that the invention is not limited to employment in connection with any one particular type of device as its uses are manifold. This chest is disclosed as including a rear wall 11, end walls 12 and a top or cover 13 which it is desired to mount for swinging movement.

The hinge structure is represented as including an open sided casing or housing 14 having at one edge an inwardly offset flange 15 adapted to be fastened by screws or the like 16 to an end wall 12 of the chest or other article. For stiffening purposes the bottom edge of the housing is provided with an inwardly directed flange 17 which closes the bottom edge. In addition, it is preferable that the rear edge of the housing be formed with an outwardly directed flange 18 adapted to be fastened by screws or other fastening elements 19 to the back wall 11 of the chest. The remaining edge is open to permit passage of the movable parts of the hinge.

The movable portion of each hinge comprises an angle lever 20 having one arm 21 pivoted at 22 to the upper rear corner of the housing, and having its other arm 23 carrying a pivot 24 pivotally and slidably engaged within a slot 25 formed in a link 26 which is preferably flanged at 27 for attachment as by screws or other fastening elements 28 to the underside of the cover or top 13. By saying that the link is flanged, it may be construed as meaning that it is right angular in cross section or else that the flanges may be simply in the nature of apertured ears, this being an obvious variation.

The device also includes a combined guide and brace member formed as a second angle lever 29 which has its angle pivoted at 30 to the angle of the lever 20, and which has the free end of one arm 31 pivoted at 32 to the rear end of the member 26. The remaining arm 33 of the angle lever 29 carries a headed pivot element 34 slidable